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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,823	06/26/2006	Joel P. Castan	63853-5094	5563
JEFFER, MANGELS, BUTLER & MARMARO, LLP 1900 AVENUE OF THE STARS, 7TH FLOOR			EXAMINER	
			WHITE, DWAYNE J	
LOS ANGELES, CA 90067			ART UNIT	PAPER NUMBER
			3745	
			MAIL DATE	DELIVERY MODE
			12/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/584,823	CASTAN, JOEL P.		
Office Action Summary	Examiner	Art Unit		
	DWAYNE J. WHITE	3745		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>26 Jules</u> This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3,6-8 and 11-13 is/are rejected. 7) ☐ Claim(s) 4,5,9 and 10 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers	vn from consideration.			
 9) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on 26 June 2006 is/are: a) Applicant may not request that any objection to the correction Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examination 	☐ accepted or b)☒ objected to drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

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DETAILED ACTION

Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Drawings

The drawings are objected to because "Fig. 6" should be labeled --FIG. 6B--. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and

informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 6-8, 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Finger et al. (2003/079474 A1). Finger et al. discloses a cambered vane 16 for use in a variable geometry turbocharger comprising: a concave inner airfoil surface; a convex outer airfoil surface oriented opposite the inner airfoil surface, the inner and outer airfoil surfaces defining a vane airfoil thickness; a leading edge positioned along a first inner and outer airfoil surface junction; and a trailing edge 20 positioned along a second inner and outer airfoil surface junction; wherein the vanes are positioned concentrically around a turbine wheel in the turbocharger (See figure 2), the inner airfoil and outer airfoil surfaces define a camberline that extends from the leading edge to the trailing edge, and wherein the camberline includes a curved section along a substantial length of the vane between the leading and tailing edges. The vanes are pivotally attached to the turbocharger by posts. Finger et al. does not disclose the curved section having a measure of curvature that is within 75 to 125 percent of a vane placement diameter defined by the concentric placement of vanes around the turbine wheel.

While Finger et al. does not specify the measure of curvature, it is already well known in the vane art that the curvature of the vane affects the efficiency of the vane and since it has been held that optimization of ranges where the range would show predictable results:

Under some circumstances, however, changes such as these may impart patentability to a process if the particular ranges claimed produce a new and unexpected result which is different in kind and not merely in degree from the results of the prior art. In re Dreyfus, 22 CCPA (Patents) 830, 73 F.2d 931, 24 USPQ 52; In re Waite et al., 35 CCPA (Patents) 1117, 168 F.2d 104, 77 USPQ 586. Such ranges are termed "critical" ranges, and the applicant has the burden of proving such criticality. In re Swenson et al., 30 CCPA (Patents) 809, 132 F.2d 1020, 56 USPQ 372; In re Scherl, 33 CCPA (Patents) 1193, 156 F.2d 72, 70 USPQ 204. However, even though applicant's modification results in great improvement and utility over the prior art, it may still not be patentable if the modification was within the capabilities of one skilled in the art. In re Sola, 22 CCPA (Patents) 1313, 77 F.2d 627, 25 USPQ 433; In re Normann et al., 32 CCPA (Patents) 1248, 150 F.2d 627, 66 USPQ 308; In re Irmscher, 32 CCPA (Patents) 1259, 150 F.2d 705, 66 USPQ 314. More particularly, where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. In re Swain et al., 33 CCPA (Patents) 1250, 156 F.2d 239, 70 USPQ 412; Minnesota Mining and Mfg. Co. v. Coe, 69 App. D.C. 217, 99 F.2d 986, 38 USPQ 213; Allen et al. v. Coe, 77 App. D.C. 324, 135 F.2d 11, 57 USPQ 136.

It is the position of the Examiner that the range of curvature of the camberline as claimed would have been within the capabilities of one skilled in the art through routine experimentation.

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Claims 1-3, 6-8, 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vogiatzis (6,709,232). Vogiatzis discloses a cambered vane 70 for use in a variable geometry turbocharger comprising: a concave inner airfoil surface 74; a convex outer airfoil surface 72 oriented opposite the inner airfoil surface, the inner and outer airfoil surfaces defining a vane airfoil thickness; a leading edge 76 positioned along a first inner and outer airfoil surface junction; and a trailing edge 78 positioned along a second inner and outer airfoil surface junction; wherein the vanes are positioned concentrically around a turbine wheel in the turbocharger (See figure 3A), the inner airfoil and outer airfoil surfaces define a camberline (Figures 6B and 7B) that extends from the leading edge to the trailing edge, and wherein the camberline includes a curved section along a substantial length of the vane between the leading and tailing edges. The vanes are pivotally attached to the turbocharger by posts. Vogiatzis does not disclose the curved section having a measure of curvature that is within 75 to 125 percent of a vane placement diameter defined by the concentric placement of vanes around the turbine wheel.

While Vogiatzis does not specify the measure of curvature, it is already well known in the vane art that the curvature of the vane affects the efficiency of the vane and since it has been held that optimization of ranges where the range would show predictable results:

Under some circumstances, however, changes such as these may impart patentability to a process if the particular ranges claimed produce a new and unexpected result which is different in kind and not merely in degree from the results of the prior art. In re Dreyfus, 22 CCPA (Patents) 830, 73 F.2d 931, 24 USPQ 52; In re Waite et al., 35 CCPA (Patents) 1117, 168 F.2d 104, 77 USPQ 586. Such ranges are termed "critical" ranges, and the applicant has the burden

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though applicant's modification results in great improvement and utility over the prior art, it
may still not be patentable if the modification was within the capabilities of one skilled in the art.

In re Sola, 22 CCPA (Patents) 1313, 77 F.2d 627, 25 USPQ 433; In re Normann et al., 32 CCPA
(Patents) 1248, 150 F.2d 627, 66 USPQ 308; In re Irmscher, 32 CCPA (Patents) 1259, 150 F.2d
705, 66 USPQ 314. More particularly, where the general conditions of a claim are disclosed in
the prior art, it is not inventive to discover the optimum or workable ranges by routine
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Minnesota Mining and Mfg. Co. v. Coe, 69 App. D.C. 217, 99 F.2d 986, 38 USPQ 213; Allen et
al. v. Coe, 77 App. D.C. 324, 135 F.2d 11, 57 USPO 136.

It is the position of the Examiner that the range of curvature of the camberline as claimed would have been within the capabilities of one skilled in the art through routine experimentation.

CONCLUSION

Allowable Subject Matter

Claims 4, 5, 9 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Information

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to DWAYNE J. WHITE whose telephone number is (571)272-4825. The examiner can normally be reached on 7:00 am to 3:30 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look can be reached on (571) 272-4820. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dwayne J White/ Examiner, Art Unit 3745

DJW